



## A comment on "Economy-wide estimates of the implications of climate change: Human health"

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**Year:** 2008  
**Journal:** Ecological Economics : The Journal of The International Society for Ecological Economics. 66 (1): 13-Aug

### Abstract:

In a recent article in this journal, Francesco Bosello, Roberto Roson, and Richard Tol make the remarkable prediction that one degree of global warming will, on balance, save more than 800,000 lives annually by 2050. They introduce enormous, controversial monetary valuations of mortality and morbidity, varying with income; they then focus primarily on modeling the much smaller, indirect economic effects of the changes in health outcomes. Their calculations, large and small, are driven by the huge projected reduction in mortality-an estimate that Bosello et al. fail to substantiate. They rely on research that identifies a simple empirical relationship between temperature and mortality, but ignores the countervailing effect of human adaptation to gradual changes in average temperature. While focusing on small changes in average temperatures, they ignore the important health impacts of extreme weather events. They extrapolate the effects of small changes in average temperature far beyond the level that is apparently supported by their principal sources, and introduce arbitrary assumptions that may bias the result toward finding net health benefits from warming. (C) 2007 Elsevier B.V. All rights reserved.

**Source:** <http://dx.doi.org/10.1016/j.ecolecon.2007.10.006>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Extreme Weather Event, Temperature

**Extreme Weather Event:** Drought, Flooding, Hurricanes/Cyclones

**Temperature:** Extreme Heat, Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

Rural, Urban

#### Geographic Location:

resource focuses on specific location

# Climate Change and Human Health Literature Portal

Global or Unspecified

## **Health Impact:**

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Infectious Disease, Morbidity/Mortality, Respiratory Effect

**Infectious Disease:** Vectorborne Disease

**Foodborne/Waterborne Disease:** Other Diarrheal Disease

**Vectorborne Disease:** Mosquito-borne Disease

**Mosquito-borne Disease:** Malaria

## **Mitigation/Adaptation:**

mitigation or adaptation strategy is a focus of resource

Adaptation

## **Model/Methodology:**

type of model used or methodology development is a focus of resource

Cost/Economic, Outcome Change Prediction

**Population of Concern:** A focus of content

## **Population of Concern:**

populations at particular risk or vulnerability to climate change impacts

Elderly

## **Resource Type:**

format or standard characteristic of resource

Research Article

## **Resilience:**

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

## **Timescale:**

time period studied

Medium-Term (10-50 years)